

RE: Changing from DHCP to static IP address

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2006-02/msg02881.html>

- *From:* "Allen Clark" <nospamacent1@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 15 Feb 2006 15:36:29 -0800
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Eric,

Is this for SBS2003? If so, use the wizards to setup the network connections, especially if you are "ServerIlliterate".

What you SHOULD see after running the wizards, you should have the following:

On your OUTSIDE (Internet) adapter, you should have the following configured:

IP Address: 69.15.69.202
Subnet Mask: 255.255.255.252
Default Gateway: 69.15.69.201
Primary DNS IP Address: 192.168.16.2

On your INSIDE (Client Workstations) adapter, you should have the following configured:

IP Address: 192.168.16.2
Subnet Mask: 255.255.255.0
Default Gateway: (Blank)
DNS Servers: 192.168.16.2

You also need to add the ISP's DNS addresses (66.180.96.12 and 66.238.96.12) to the forwarders tab of your DNS. (Run a few tests after adding and enabling the forwarders.)

Also, in your DHCP scope options, you will have your router set to 192.168.16.2, DNS set to 192.168.16.2, and the scope will have a range of 192.168.16.20 thru 192.168.16.50 (or any range with 192.168.16.x – 192.168.16.y with a 255.255.255.0 subnet mask).

MAKE SURE that the ONLY place you see your ISP's DNS addresses are in the forwarders tab of DNS. NO WORKSTATION or SERVER should have these in the TCP/IP settings. If they are in there, your AD will not be properly updated and over time, you will experience strange network connectivity issues.

As far as ftp and VPN are concerned, you didn't mention if it was standard or premium (or SBS2003) and the settings and methods of allowing access

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differ between the ICS and ISA configurations.

I hope this was helpful.

Good Luck!

Allen Clark

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"ServerIlliterate" wrote:

I requested and recieved a public IP address from my ISP and want to reconfigure my network for the Static IP and have the server run DHCP to the client computers. I have a router installed and want to just hook the server up directly and use the firewall there to control everything. I also want to have the server run DHCP to the internal clients(this I think I already setup and is operating due to the complete funcationality of the internal clients as they are setup now).

This is what my ISP is showing on their end:

DHCP: On

Private IP Address Range: 10.0.1.2 to 10.0.1.255

DHCP IP Excluded Range: 10.0.1.128 to 10.0.1.191

Subnet Mask IP Address: 255.255.255.0

Default Gateway IP Address: 10.0.1.1

Primary DNS IP Address: 66.180.96.12

Secondary DNS IP Address: 64.238.96.12

Port Forwarding IP Address Range: 10.0.1.128 to 10.0.1.191

Public IP Addressing

Number of Public IP Address Blocks: 1

Public IP Address Range: 69.15.69.202 to 69.15.69.202

Subnet Mask IP Address: 255.255.255.252

Default Gateway IP Address: 69.15.69.201

Primary DNS IP Address: 66.180.96.12

Secondary DNS IP Address: 64.238.96.12

Public IP Address on Router: 69.15.69.201

Network IP Address: -

Here is my internal(Intranet)NIC and external(Internet)NIC information(ipconfig/all) as is configured in its' current operational state.

Windows IP Configuration

Host Name.....: (nameofserver)

Primary Dns Suffix.....: (nameofcompany).local

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Node Type.....: Unkown
IP Routing Enabled.....: Yes
WINS Proxy Enabled.....: Yes
DNS Suffix Search List.....: (Nameofcompany).local
IAD3426DAL.da10.cbeyond.net

Ethernet adapter Network Configuration

Connection-specific DNS Suffix...: IAD3426DAL.da10.cbeyond.net
Description.....: Intel(R) Pro/100 VE Network
Connection
Physical Address.....: 00-11-11-C7-C5-12
DHCP Enabled.....: Yes
Autoconfiguration Enabled.....: Yes
IP Address.....: 192.168.1.100
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 192.168.1.1
DHCP Server.....: 192.168.1.1
DNS Servers.....: 66.180.96.12
64.238.96.12
66.180.96.12
NetBIOS over Tcpi: Disabled
Lease Obtained.....: Wednesday, February 15 2006 6:04
Lease Expires.....: Thrusday, February 16, 2006
6:04

Ethernet adapter Local Area Connection 2:

Connection-specific DNS Suffix....: (blank)
Description.....: D-Link DGE-530T Gigabit
Ethernet #3
Physical Address.....: 00-13-46-99-59-24
DHCP Enabled: No
IP Address: 192.168.16.2
Subnet Mask: 255.255.255.0
Default Gateway: (Blank)
DNS Servers: 192.168.16.2

How do I set everything up to ensure it is complete and properly setup.

After I set these settings what services do i need to start or have started to allow ftp, VPN etc...?

I am guessing i reset the external nic to the proper settings and just roll from there after I make sure the routing service is properly configured?(routing service is on in server mgmt)

I tried it once and got the server onto the internet by removing the router and manually configuring the External NIC but then I lost the internal network.

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Sorry this is so long, I wanted to make sure everything possible is available on the first post. Many of these posts go on and on asking for just information and multiple posts until they get to the actual problem.

Any help with this would be greatly appreciated.

Thanks,

Eric